

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
DE 4403977	A1		6	B32B-027/04	
DE 9422147	U1			B32B-027/04	application DE 4403977

Abstract (Basic): DE 4403977 A

A multilayered body, esp. for vehicle trim, has a carrier layer (4), with pref. a soft resilient intermediate layer (3) and a decorative layer (2). The carrier layer (4) has natural fibres (5) as a filler and, additionally, recyclable thermoplastic synthetic material as a binder.

Pref. the carrier layer (4) is built up of three layers comprising a core (7) and two cover layers (8,9). The core (7) contains 50 - 70 (pref. 50)%, thermoplastic binder, with the remainder natural fibres or glass fibres. The cover layers (8,9) contain more binder, pref. 70%. The layers of the carrier (4) are needle punched together and then moulded in a press with the other layers to give components about 5 mm thick.

USE/ADVANTAGE - For moulded, self-supporting vehicle trim components such as roof or door linings. The material has improved stiffness during mfr. and can be easily recycled.

Dwg. 1/2

Title Terms: MULTILAYER; MATERIAL; VEHICLE; TRIM; COVER; FOAM; BOND; CARRY; LAYER; CONTAIN; NATURAL; FIBRE; BIND

Derwent Class: A95; P73; Q17

International Patent Class (Main): B32B-027/04

International Patent Class (Additional): B32B-005/28; B32B-027/12;

B60R-013/02

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A11-C03; A12-T04B

Polymer Indexing (PS):

<01>

\*001\* 017; P0000; S9999 S1309-R; S9999 S1434

\*002\* 017; K9574 K9483; K9701 K9676; Q9999 Q7307; Q9999 Q9234 Q9212; Q9999 Q9289 Q9212; Q9999 Q7830; B9999 B4079 B3930 B3838 B3747; N9999 N6906; N9999 N6246; N9999 N7192 N7023; N9999 N6600; B9999 B5243-R B4740; Q9999 Q7829 Q7818; ND01

<02>

\*001\* 017; H0317; S9999 S1434

\*002\* 017; K9892; K9518 K9483; K9574 K9483; K9701 K9676; Q9999 Q7307; Q9999 Q9234 Q9212; Q9999 Q9289 Q9212; Q9999 Q7830; B9999 B4079 B3930 B3838 B3747; N9999 N6906; N9999 N6246; N9999 N7192 N7023; N9999 N6600; B9999 B5243-R B4740; Q9999 Q7829 Q7818; ND01

\*003\* 017; G2891 D00 Si 4A; A999 A419; S9999 S1070-R; A999 A771

<03>

\*001\* 017; R24078 R01852 G3634 G3623 D01 D03 D11 D10 D23 D22 D31 D42 D50 D86 F24 F29 F26 F34 H0293 P0599; P0599; S9999 S1070-R; A999 A782; A999 A419

Derwent Registry Numbers: 5102-U; 5214-U

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?ss pn=de 10004859

S8

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PN=DE 10004859

?t s8/9/all

8/9/1

DIALOG(R)File 351:Derwent WPI

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014081017 \*\*Image available\*\*

WPI Acc No: 2001-565231/200163

XRAM Acc No: C01-167727

XRPX Acc No: N01-420813

**Fibrous material lining for reducing noise in motor vehicles, comprises hollow elastic members embedded in it**

Patent Assignee: SAI AUTOMOTIVE SAL GMBH (SAIA-N);

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Inventor: SCHUSTER D

Number of Countries: 094 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200157301	A1	20010809	WO 2001EP1192	A	20010205	200163	B
DE 10004859	A1	20010927	DE 1004859	A	20000203	200164	
AU 200137364	A	20010814	AU 200137364	A	20010205	200173	

Priority Applications (No Type Date): DE 1004859 A 20000203

#### Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200157301 A1 G 18 D04H-001/54

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

DE 10004859 A1 D04H-001/42

AU 200137364 A D04H-001/54 Based on patent WO 200157301

Abstract (Basic): WO 200157301 A1

NOVELTY - A fibrous material layer (1), comprises hollow elastic members (4) which are embedded in it. The hollow bodies are 0.01-1.0 mm, especially 0.02-0.1 mm in size, and make up at least 10% of the layer volume. The fibrous material has a bulk density of up to 150 kg/m<sup>3</sup>.

USE - The arrangement is used as a noise reducing lining in motor vehicles.

ADVANTAGE - The material is economical, and is simple to apply.

DESCRIPTION OF DRAWING(S) - The drawing shows the layer

layer (1)

elastic members (4)

pp; 18 DwgNo 1/2

#### Technology Focus:

TECHNOLOGY FOCUS - POLYMERS - Preferred Material: The fibre material is a polyester fleece.

Title Terms: FIBRE; MATERIAL; LINING; REDUCE; NOISE; MOTOR; VEHICLE;

COMPRISE; HOLLOW; ELASTIC; MEMBER; EMBED

Derwent Class: A23; A93; F04; Q43

International Patent Class (Main): D04H-001/42; D04H-001/54

International Patent Class (Additional): D21H-021/52; E04B-001/84

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A05-E01B3; A12-S05A; A12-S05D; A12-S05G; A12-T04B;

F01-E03; F04-C01; F04-E03; F04-E06

Polymer Indexing (PS):

<01>

\*001\* 018; P0839-R F41 D01 D63; S9999 S1207 S1070; S9999 S1183 S1161  
S1070; S9999 S1150 S1070.

\*002\* 018; ND01; B9999 B4842 B4831 B4740; B9999 B5254 B5243 B4740; Q9999  
Q6622 Q6611; Q9999 Q7830; Q9999 Q9234 Q9212; Q9999 Q9289 Q9212

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?ss pn=se 19757102

S9 0 PN=SE 19757102

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?ss pn=de 19757102

S10 1 PN=DE 19757102

?t s10/9/all

10/9/1

DIALOG(R)File 351:Derwent WPI

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WPI Acc No: 1999-372213/ 199932

XRAM Acc No: C99-110056

XRPX Acc No: N99-277650

**Environmentally friendly, self-supporting molding used in cars**

Patent Assignee: HP-CHEM PELZER RES & DEV LTD (HPCH-N)

Number of Countries: 001 Number of Patents: 001

Patent Family: